

[DATA COMPRESSION/DECOMPRESSION DEVICE AND SYSTEM APPLYING THE SAME]

Abstract

A data compression/decompression device and the system applying the same are provided. The system comprises a data storage device having a data transmission interface; a data generation device accessing a data in the data storage device via the data transmission interface; and a data compression/decompression device, coupled to the data storage device and the data generation device via the data transmission interface, for compressing/decompressing the data transmitted between the data storage device and the data generation device and managing an address mapping table which is the cross reference between an access address transmitted from the data generation device and a physical address of storing the data in the data storage device. Therefore, the object of data compression can be achieved without using the resources of the CPU, the memory space, the related software or driver to compress the data.